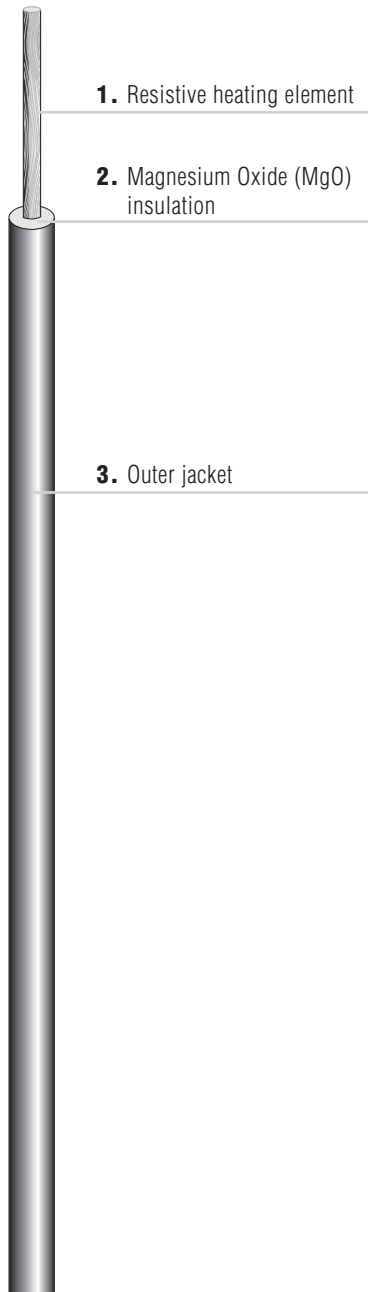




Single-core mineral-insulated heating cable EMK



Features

- High constant power output per metre
- Extremely high mechanical strength
- Temperature-resistant up to +650 °C
- Highly resistant to chemicals
- Supply voltage of up to 500 V
- Suitable for Ex areas
- Outer jacket of Incoloy
 - highly resistant to stress corrosion cracking
 - high power output (up to 230 W/m)
 - extremely high chemical resistance

Description

A distinguishing feature of our BARTEC EMK heating cables is that they are extremely robust and require no additional protection against mechanical influences.

Function

The application of a supply voltage to the resistance cable generates heat. The quantity of heat is dependent on the resistance value of the heating cable and the supply voltage.

Explosion protection

Ex protection type

II 2G EEx e II

Certification

PTB 99 ATEX 1080 U
SIRA 05 ATEX 3008

Technical data

Structure

heating element	copper, chromium nickel, constantan
insulation	magnesium Oxide (MgO)
outer jacket	Incoloy, stainless steel no. 1.4541 or CuNi

Heating circle with EMK

- Type 27-3621-02./...
- Type 27-3621-04./...
- Type 27-3623-02./...
- Type 27-3623-04./...

Nominal voltage

up to 500 V

Test voltage

1.5 kV

Min. installation temperature

-20 °C

Bend radius

- 3 x OD (Standard version)
- 5 x OD (Ex version)

Weight

100 to 180 g/m²

Max. jacket withstand temperature

Incoloy	+650 °C*
S/S	+600 °C
CuNi	+400 °C

* on request

**Selection chart CuNi**

Short form title	Ω/km at +20°C	Conductor material	External diameter (mm)	Outer jacket resistance Ω/km	➔ Order no.
EMK CuNi 0011	11	Copper	4.9	58.30	27-3833-20490011
EMK CuNi 0017	17	Copper	4.6	65.60	27-3833-20460017
EMK CuNi 0025	25	Copper	3.7	93.30	27-3833-20370025
EMK CuNi 0040	40	Copper	3.4	107.60	27-3833-20340040
EMK CuNi 0063	63	Copper	3.2	121.00	27-3833-20320063
EMK CuNi 0160	160	Constantan	4.9	58.81	27-3833-20490160
EMK CuNi 0250	250	Constantan	4.4	71.99	27-3833-20440250
EMK CuNi 0400	400	Constantan	4.0	87.69	27-3833-20400400
EMK CuNi 0630	630	Constantan	3.7	103.10	27-3833-20370630
EMK CuNi 1000	1 000	Constantan	3.4	123.00	27-3833-20341000
EMK CuNi 1600	1 600	Constantan	3.2	139.60	27-3833-20321600

Selection chart stainless steel (S/S) no. 1.4541

Short form title	Ω/km at +20°C	Conductor material	External diameter (mm)	Outer jacket resistance Ω/km	➔ Order no.
EMK S/S 0160	160	Chromium Nickel	6.5	92.38	27-3834-20650160
EMK S/S 0250	250	Chromium Nickel	5.3	137.60	27-3834-20530250
EMK S/S 0400	400	Chromium Nickel	4.7	173.70	27-3834-20470400
EMK S/S 0630	630	Chromium Nickel	4.3	152.40	27-3834-20430630
EMK S/S 1000	1000	Chromium Nickel	3.9	187.00	27-3834-20391000
EMK S/S 1600	1600	Chromium Nickel	3.6	215.30	27-3834-20361600
EMK S/S 2500	2500	Chromium Nickel	3.4	235.80	27-3834-20342500
EMK S/S 4000	4000	Chromium Nickel	3.2	284.20	27-3834-20324000
EMK S/S 6300	6300	Chromium Nickel	3.2	284.20	27-3834-20326300
EMK S/S 010K	10000	Chromium Nickel	3.2	284.20	27-3834-2032010K